WHAT IS CLAIMED IS:

10

- A power converter for converting an output from a power source having an unstable output voltage, comprising:
- a transformer, wherein a primary winding has two or three turns; and
 - a converter, arranged to supply DC power supplied from the power source to the transformer by switching the DC power, thereby boosting the output voltage from the power source by a few ten times to a few hundred times.
 - 2. The converter according to claim 1, wherein the converter boosts the output voltage from the power source by 25 to 500 times.
- 15 3. The converter according to claim 1, wherein the power source is a solar cell.
 - 4. The converter according to claim 1, wherein the power source is a single-cell solar cell.
- The converter according to claim 1, wherein the
 converter performs switching at a fixed frequency and fixed duty.
 - 6. The converter according to claim 1, further comprising an inverter arranged to convert the output DC power from the converter into AC power by a
- switching operation which holds the output voltage from the converter substantially constant.
 - 7. An electric power generator comprising:

a power source having an unstable output voltage;

a power converter cited in claim 1.

- 8. The generator according to claim 7, wherein the generator has the power converters in number corresponding to a rated output power of the generator.
- 9. The generator according to claim 7, further comprising an inverter arranged to convert the output DC power from the converter into AC power by a
- 10 switching operation which holds the output voltage from the converter substantially constant, thereby generating an output of the generator.
 - 10. The generator according to claim 7, wherein the generator is interconnected to a commercial power
- 15 system.
 - 11. The generator according to claim 7, wherein the power source is a solar cell.
 - 12. The generator according to claim 7, wherein the power source is a single-cell solar cell.

20